

Press release I / 2016

JSPS Award for Prof. Dr. Stefan Kaskel

Prof. Dr. rer. nat. habil. Stefan Kaskel, Chair of Anorganic Chemistry at the Technischen Universität Dresden and head of the business unit Chemical Surface- and Reaction Technology at the Fraunhofer-Institut für Werkstoff- und Strahltechnik IWS Dresden received the Japan Society for the Promotion of Science (JSPS) award for his excellent scientific research in the field of energy storage devices. The prize includes a research stay at the National Institute of Advanced Industrial Science and Technology (AIST) in Osaka (Japan).

Since 2004 Prof. Kaskel has been researching in Dresden and, since 2008, has been heading the business unit Chemical Surface- and Reaction Technology at the Fraunhofer IWS Dresden. For many years he has focused his research on porous and nano structured carbon materials with specific surfaces. The expertise acquired in this area at the TU Dresden has been continuously advanced together with the Fraunhofer IWS. Today, porous and nano structured carbon materials with specific surfaces of more than 3000 m²/g play a decisive role with respect to developments of novel energy storage systems. Porous carbon materials are in particular a key to success with regard to the development of lithium-sulfur batteries. In this area Dresden researchers are world leaders. Their lithium-sulfur prototype cells achieve energy densities of > 350 Wh/kg.

The prize money includes a four week research stay, in which Prof. Kaskel will have the chance to collaborate with Prof Qiang Xu, a leading expert in the field of chemical material research at the National Institute of Advanced Industrial Science and Technology (AIST) in Osaka (Japan).

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Prof. Dr. Stefan Kaskel
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Pouch cell, developed at the Fraunhofer IWS Dresden
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